

AZ - 500 : Microsoft Azure Security Technologies

Course Outline

- **Secure Azure solutions with Azure Active Directory**
 - Configure Azure AD and Azure AD Domain Services for security
 - Create users and groups that enable secure usage of your tenant
 - Use MFA to protect user's identities
 - Configure passwordless security options
- **Implement Hybrid identity**
 - Deploy Azure AD Connect
 - Pick and configure the best authentication option for your security needs
 - Configure password writeback
- **Deploy Azure AD identity protection**
 - Deploy and configure Identity Protection
 - Configure MFA for users, groups, and applications
 - Create Conditional Access policies to ensure your security
 - Create and follow an access review process
- **Configure Azure AD privileged identity management**
 - Describe Zero Trust and how it impacts security
 - Configure and deploy roles using Privileged Identity Management (PIM)
 - Evaluate the usefulness of each PIM setting as it relates to your security goals
- **Design an enterprise governance strategy**
 - Explain the shared responsibility model and how it impacts your security configuration
 - Create Azure policies to protect your solutions
 - Configure and deploy access to services using RBAC
- **Implement perimeter security**
 - Define defense in depth
 - Protect your environment from denial-of-service attacks
 - Secure your solutions using firewalls and VPNs
 - Explore your end-to-end perimeter security configuration based on your security posture
- **Configure network security**
 - Deploy and configure network security groups to protect your Azure solutions
 - Configure and lockdown service endpoints and private links
 - Secure your applications with Application Gateway, Web App Firewall, and Front Door
 - Configure ExpressRoute to help protect your network traffic

- **Configure and manage host security**
 - Configure and deploy Endpoint Protection
 - Deploy a privileged access strategy for devices and privileged workstations
 - Secure your virtual machines and access to them
 - Deploy Windows Defender
 - Practice layered security by reviewing and implementing Security Center and Security Benchmarks
- **Enable Containers security**
 - Define the available security tools for containers in Azure
 - Configure security settings for containers and Kubernetes services
 - Lock down network, storage, and identity resources connected to your containers
 - Deploy RBAC to control access to containers
- **Deploy and secure Azure Key Vault**
 - Define what a key vault is and how it protects certificates and secrets
 - Deploy and configure Azure Key Vault
 - Secure access and administration of your key vault
 - Store keys and secrets in your key vault
 - Explore key security considerations like key rotation and backup/recovery
- **Configure application security features**
 - Register an application in Azure using app registration
 - Select and configure which Azure AD users can access each application
 - Configure and deploy web app certificates
- **Implement storage security**
 - Define data sovereignty and how that is achieved in Azure
 - Configure Azure Storage access in a secure and managed way
 - Encrypt your data while it is at rest and in transit
 - Apply rules for data retention
- **Configure and manage SQL database security**
 - Configure which users and applications have access to your SQL databases
 - Block access to your servers using firewalls
 - Discover, classify, and audit the use of your data
 - Encrypt and protect your data while it is stored in the database
- **Configure and manage Azure Monitor**
 - Configure and monitor Azure Monitor
 - Define metrics and logs you want to track for your Azure applications
 - Connect data sources to and configure Log Analytics
 - Create and monitor alerts associated with your solutions security
- **Enable and manage Microsoft Defender for Cloud**
 - Define the most common types of cyber-attacks

- Configure Microsoft Defender for Cloud based on your security posture
- Review Secure Score and raise it
- Lock down your solutions using Microsoft Defender for Cloud's workload protection
- Enable Just-in-Time access and other security features
- **Configure and monitor Microsoft Sentinel**
 - Explain what Microsoft Sentinel is and how it is used
 - Deploy Microsoft Sentinel
 - Connect data to Microsoft Sentinel, like Azure Logs, Azure AD, and others
 - Track incidents using workbooks, playbooks, and hunting techniques